## 30W SINGLE OUTPUT

## FEATURES

- Industry Standard Pin Out
- Low 8.5mm Profile
- 3.3V Output Available
- 1500VDC Input to Output Isolation (48V Versions)
- Remote On/Off Control
- Warranty 2 Years

DC

## ELECTRICAL SPECIFICATION

| Model No. | Max Power | Input | Output 1 | | Output 2 | | Output 3 | |
|---|---|---|---|---|---|---|---|---|
| | | | Volts | Amps | Volts | Amps | Volts | Amps |
| PM30-12S03 | 24.8W | 12 VDC | 3.3V | 7.5A | N/A | | N/A | |
| PM30-12S05 | 30W | 12 VDC | 5V | 6A | N/A | | N/A | |
| PM30-12S12 | 30W | 12 VDC | 12V | 2.5A | N/A | | N/A | |
| PM30-12S15 | 30W | 12 VDC | 15V | 2A | N/A | | N/A | |
| PM30-24S03 | 24.8W | 24 VDC | 3.3V | 7.5A | N/A | | N/A | |
| PM30-24S05 | 30W | 24 VDC | 5V | 6A | N/A | | N/A | |
| PM30-24S12 | 30W | 24 VDC | 12V | 2.5A | N/A | | N/A | |
| PM30-24S15 | 30W | 24 VDC | 15V | 2A | N/A | | N/A | |
| PM30-48S03 | 24.8W | 48 VDC | 3.3V | 7.5A | N/A | | N/A | |
| PM30-48S05 | 30W | 48 VDC | 5V | 6A | N/A | | N/A | |
| PM30-48S12 | 30W | 48 VDC | 12V | 2.5A | N/A | | N/A | |
| PM30-48S15 | 30W | 48 VDC | 15V | 2A | N/A | | N/A | |

## OUTLINE SPECIFICATION

**Input**

*Input Voltage Range(s):* 12V nom - 9 to 18VDC
24V nom - 18 to 36VDC
48V nom - 36 to 75VDC

*Input Current (typical):* 12V nom - 4.2A
24V nom - 2.1A
48V nom - 1.1A

*Inrush Current♦1* <50A

*Input Line Disturbances:* 12V input - 25V for 100mS
24V input - 50V for 100mS
48V input - 100V for 100mS

**Output**

*Load Regulation♦2(typical):* 1%

*Line Regulation♦3(typical):* 0.2%

*Output Ripple♦4:*

*3.3V & 5V O/P models:* 20mV RMS, 75mV pk-pk

*12V & 15V O/P models:* 25mV RMS, 100mV pk-pk

*Overvoltage Clamp Point Range♦5:* 4.0 to 4.7V at 3.3V nom O/P
6.2 to 6.5V at 5V nom O/P
13 to 14V at 12V nom O/P

*Current Limit♦6:* Yes

*Output Voltage Accuracy:* ±1%

*Output Voltage Adjust:* ±10%

*Temperature Coefficient:* ±0.01%/°C

*Remote On/Off Control♦7:* Logic 1 or Open Enables Unit
Logic 0 or shut down unit
Remote On/Off pin ref to pin 1

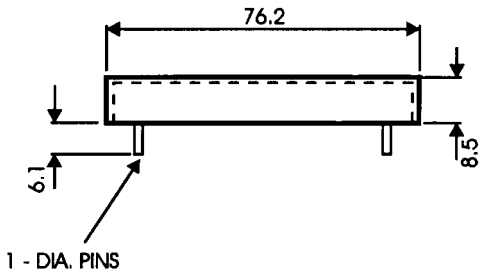
## OUTLINE SPECIFICATION continued

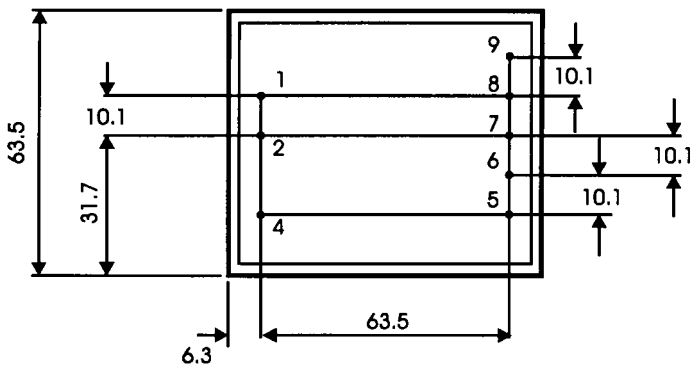
**Product Features**

| | | | |
|---|---|---|---|
| *Efficiency (typical):* | *12V I/P* | *other models* | |
| | *3V O/P* | *72%* | *76%* |
| | *5V,12V,15V O/P* | *75%* | *80%* |
| *Operating Temperature*:* | *-25°C to +50°C ambient* | | |
| | *(derate to 0 Watts at 105°C)* | | |
| *Storage Temperature:* | *-40°C to +105°C* | | |
| *Isolation Voltage (I/P-O/P):* | | | |
| *12V & 24V models:* | *500VAC, 700VDC-10 Mohms* | | |
| *48V models* | *900VAC,1500VDC-10 Mohms* | | |
| *Switching Frequency:* | *350 kHz* | | |
| *Size WxHxD:* | *63.5 x 8.5 x 76 mm* | | |
| *Weight:* | *70g* | | |



## PHYSICAL SPECIFICATION




## CONNECTION DETAILS

| | |
|---|---|
| *Pin 1* | *-Vin* |
| *Pin 2* | *+Vin* |
| *Pin 4* | *On/Off* |
| *Pin 5* | *Trim* |
| *Pin 6* | *+Vo* |
| *Pin 7* | *-Vo* |
| *Pin 8* | *NC* |
| *Pin 9* | *NC* |

*♦NOTES*

*1 Inrush current limiting as specified by ETSI-300-132.*

*2 For output current changes between 10% and 100% of full load.*

*3 For input changes between minimum and maximum.*

*4 Differential mode and measured at the O/P terminals of the converter utilising the EIAZ method. All specifications reflect a 20MHz measurement bandwidth.*

*5 Overvoltage protection clamps the total output voltage at predetermined level in the event of an internal sensing circuit or feedback loop failure.*

*6 External overload protection, automatic electronic current limiting circuit limits the output current to a safe value. Units are capable of sustaining short circuited output indefinitely.*

*7 To be opened on power up.*